



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

KRONROD et al. ✓

Art Unit: 2858 ✓

Application No.: 09/892,850 ✓

Examiner: He, Amy ✓

Filed: June 28, 2001 ✓

Attorney Dkt. No.: 58268-00035

For: SYSTEM AND METHOD FOR MEASURING THE POWER DRAWN BY A  
CIRCUIT ON A PRINTED CIRCUIT BOARD ✓

RESPONSE TO OFFICE ACTION

Commissioner for Patents  
Washington, D.C. 20231

January 3, 2002

Sir:

This paper is filed in response to the Office Action dated December 5, 2002, in which the Office Action identified five (5) distinct species. The Office Action further required the Applicants, under 35 U.S.C. § 121, to elect a single species for prosecution.

The five (5) species identified by the Office Action are:

Species I. Figure 2;

Species II. Figure 4;

Species III. Figure 5a;

Species IV. Figure 6; and

Species V. Figure 7.

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The Office Action stated that there are no generic claims.

Applicants respectfully submit the above-identified species are recited in the claims as follows:

Species I. Figure 2, claimed in claims 22-25 and 52-55;

Species II. Figure 4, claimed in claims 1-9, 17-25, 27-30, 33-41, and 50-56;

Species III. Figure 5a, claimed in claims 1-56;

Species IV. Figure 6, claimed in claims 1-56; and

Species V. Figure 7, claimed in claims 1-56.

Pursuant to the Office Action's requirement, the Applicants elect, with traverse, Species III, Figure 5a, claimed in claims 1-56 for prosecution on the merits.

Applicants respectfully disagree with the Office Action indicating that there are no generic claims, and therefore respectfully traverse the restriction requirement. Applicants further submit that claims 22-25 and 52-55 are generic to all of the species noted above.

Claim 22, upon which claims 23-25 are dependent, recites a system for measuring core power of a circuit on a printed circuit board (PCB). The system includes a first circuit, a power plane feeding the first circuit, and a power strip disposed in the PCB connecting the first power supply to the power plane and having at least two vias for measuring a voltage drop. In addition, the system includes a second circuit configured to measure a first voltage drop across the power strip as a first voltage, a temperature of the power strip, and perform a power calculation by calculating the power being consumed by the first circuit based on the first voltage and the temperature.

Claim 52, upon which claims 53-55 are dependent, recites a system for measuring core power of a circuit on a printed circuit board (PCB). The system includes a first circuit; a power plane means for feeding the first circuit, and a power strip means disposed in the PCB for connecting the first power supply to the power plane and having at least two means for measuring a voltage drop. In addition, the system includes a calculating means for measuring a first voltage drop across the power strip means as a first voltage, for measuring a temperature of the power strip means, and for performing a power calculation by calculating the power being fed to the first circuit based on the first voltage and the temperature.

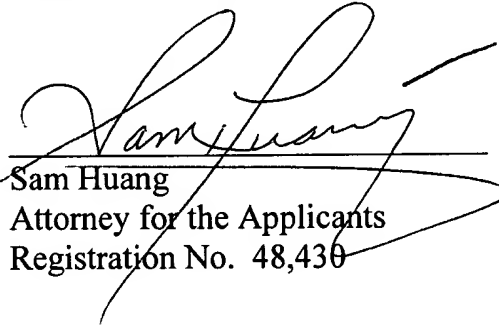
Applicants respectfully submit that claims 22-25 and 52-55 are generic to all the species noted above because these claims recite subject matter that are readable on each and every one of species I-V identified above. In particular, each of claims 22-25 recites a first circuit, a power plane, a power strip and a second circuit, which reads on the elements shown in Figures 2, 4, 5a, 6 and 7. Additionally, each of claims 52-55 recites a first circuit, a power plane means, a power strip means, and a calculating means, which also reads on the elements shown in Figures 2, 4, 5a, 6 and 7. Accordingly, Applicants respectfully submit that claims 22-25 and 52-55 are generic claims, and request that these claims be entitled for consideration as generic claims.

Therefore, Applicants elect, with traverse, Species III, Figure 5a, claimed in claims 1-56 for prosecution on the merits, and respectfully submit that the application is in condition for examination.

A timely examination and favorable action on claims 1-56 are respectfully requested.

In the event this paper is not being timely filed, the Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

Respectfully submitted,



Sam Huang  
Attorney for the Applicants  
Registration No. 48,430

**Customer No. 32294**  
SQUIRE, SANDERS & DEMPSEY LLP  
14<sup>TH</sup> Floor  
8000 Towers Crescent Drive  
Tysons Corner, Virginia 22182-2700  
Telephone: 703-720-7800  
Fax: 703-720-7802

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